

AMENDMENTS TO THE CLAIMS

1. (currently amended) An electronic reading device, comprising:
a reading sensor for detecting at least a portion of information printed on a first layer of a surface and an associated portion of an address pattern included on a second layer of the surface, wherein a position of the reading sensor relative to the address pattern can be determined from the detected portion of the address pattern, said reading sensor operating to forward the detected portion of the printed information and the detected portion of the address pattern associated therewith.

2. (original) The electronic reading device of claim 1, wherein the detected portion of the printed information is printed on a surface having a preprinted address pattern.

3. (original) The electronic reading device of claim 1, wherein the address pattern is superimposed on a surface having preexisting printed information.

4. (original) The electronic reading device of claim 1, wherein the address pattern comprises a pattern of dots.

5. (original) The electronic reading device of claim 1, wherein the reading sensor comprises a first sensor for detecting portions of the printed information and a second sensor for detecting portions of the address pattern.

6. (original) The electronic reading device of claim 1, wherein the printed information reflects light in a first part of the light spectrum and the address pattern reflects light in a second part of the light spectrum, the first part of the light spectrum at least partially non-overlapping with the second part of the light spectrum.

7. (original) The electronic reading device of claim 6, wherein the first part of the light spectrum and the second part of the light spectrum each comprise at least a portion of at least one of the visible light spectrum, the ultraviolet spectrum, and the infrared spectrum.

8. (original) The electronic reading device of claim 6, wherein the reading sensor comprises:

- a first sensor for detecting light in the first part of the light spectrum; and
- a second sensor for detecting light in the second part of the light spectrum.

9. (original) The electronic reading device of claim 6, further comprising a light emitter operating to emit light in at least one of the first part of the light spectrum and the second part of the light spectrum.

10. (original) The electronic reading device of claim 9, wherein the light emitter emits a wide spectrum light and the reading sensor comprises a plurality of sensors, at least one of the plurality of sensors including a filter for filtering out one of the first part of the light spectrum and the second part of the light spectrum.

11. (original) The electronic reading device of claim 9, wherein the light emitter includes:

- a first light emitting diode operating to emit an infrared light; and
- a second light emitting diode operating to emit a non-infrared light.

12. (original) The electronic reading device of claim 11, wherein the first light emitting diode and the second light emitting diode are alternately activated.

13. (original) The electronic reading device of claim 1, wherein the electronic reading device comprises a hand scanner.

14. (original) The electronic reading device of claim 1, wherein the reading sensor forwards the detected printed information and the detected portion of the address pattern associated therewith to a processor, said processor operating to generate an electronic copy of the printed information by determining positions of the detected printed information using the associated portions of the address pattern.

15. (currently amended) A system for reading printed information, comprising:
a formatted surface including an address pattern and printed information, wherein a position relative to the address pattern can be determined from an examination of only a portion of the address pattern; and

wherein the printed information is included on a first layer of the formatted surface, and the address pattern is included on a second layer of the formatted surface; and

an electronic reading device including a reading sensor for substantially simultaneously detecting at least a portion of the printed information and a corresponding portion of the address pattern.

16. (original) The system of claim 15, wherein the formatted surface comprises a sheet of paper.

17. (original) The system of claim 15, wherein the formatted surface comprises a display screen, the printed information and the address pattern displayed on the display screen.

18. (original) The system of claim 15, wherein the formatted surface comprises a display screen, the printed information displayed on the display screen and the address pattern preprinted on the display screen.

19. (original) The system of claim 15, further comprising a processor for generating an electronic copy of the printed information by determining a location of each portion of the detected printed information based on the corresponding portion of the address pattern.

20. (original) The system of claim 19, wherein the processor can generate a substantially exact electronic copy of the printed information regardless of the number of times and the direction in which the reading sensor is moved across the formatted surface.

21. (original) The system of claim 19, wherein, when only parts of the printed information are detected, the processor can determine a substantially exact distance between the detected parts of the printed information.

22. (original) The system of claim 19, further comprising a memory for storing an electronic copy of the address pattern for use in generating the electronic copy of the printed information.

23. (original) The system of claim 22, wherein the processor generates the electronic copy of the printed information by mapping detected portions of the printed information onto the stored copy of the address pattern.

24. (original) The system of claim 19, wherein the electronic reading device further comprises a light emitter for emitting a broad spectrum light and the reading sensor comprises a plurality of sensors, wherein at least one of the sensors includes a filter for filtering out a portion

of the light spectrum, each sensor that includes a filter detecting one of the printed information and the address pattern and each sensor that does not include a filter detecting the other of the printed information and the address pattern.

25. (original) The system of claim 19, wherein the electronic reading device further comprises a first light emitter emitting light in a first part of the light spectrum for use in detecting portions of the address pattern.

26. (original) The system of claim 25, wherein the electronic device further includes a second light emitter emitting light in a second part of the light spectrum for use in detecting portions of the printed information, wherein the second part of the light spectrum is distinct from the first part of the light spectrum.

27. (original) The system of claim 26, wherein the first light emitter and the second light emitter are alternatively activated.

28. (original) The system of claim 15, further comprising a processor for generating an output based on the detected printed information and the detected portions of the address pattern, wherein the output is selected from the group consisting of sound, text, and an image.

29. (currently amended) A method for scanning information, comprising the steps of:
detecting at least a portion of an image on a first layer of a surface;
detecting a portion of an address pattern depicted on a second layer of the surface, the detection of the portion of the address pattern performed substantially concurrently with the detection of the portion of the image, said detected portion of the address pattern corresponding to the detected portion of the image; and

identifying a position of the detected portion of the image using the corresponding detected portion of the address pattern.

30. (original) The method of claim 29, wherein the surface comprises a display screen, further comprising the step of generating the image on the display screen.

31. (original) The method of claim 30, further comprising the step of generating the address pattern on the display screen.

32. (original) The method of claim 29, wherein the surface comprises a formatted paper.

33. (original) The method of claim 29, further comprising the step of scanning a reading sensor across the surface, said steps of detecting the at least a portion of the image and detecting the portion of the address pattern performed during said scanning.

34. (original) The method of claim 29, further comprising the step of generating an electronic copy of the image by mapping the detected portions of the image to specific locations based on the corresponding detected portions of the address pattern.

35. (original) The method of claim 29, wherein the image reflects light in a first part of the light spectrum and the address pattern reflects light in a second part of the light spectrum.

36. (original) The method of claim 35, wherein the detection of portions of the image comprises detecting light in the first part of the light spectrum and the detection of portions of the address pattern comprises detecting light in the second part of the light spectrum.

37. (original) The method of claim 36, further comprising the step of filtering at least one of the first part of the light spectrum and the second part of the light spectrum.

38. (original) The method of claim 37, further comprising the step of illuminating the surface with a wide spectrum light.

39. (original) The method of claim 36, wherein the second part of the light spectrum comprises infrared light.

40. (original) The method of claim 39, further comprising the step of illuminating the surface with an infrared light during the step of detecting the portion of the address pattern.

41. (original) The method of claim 40, further comprising alternating between the step of detecting the at least a portion of the image and the step of detecting the corresponding portion of the address pattern.

42. (original) The method of claim 41, further comprising the step of illuminating the surface with light in the first part of the light spectrum during the step of detecting the at least a portion of the image.

43. (original) The method of claim 29, further comprising the step of generating output using the identified position, wherein the output is selected from the group consisting of sound, text, and an image.